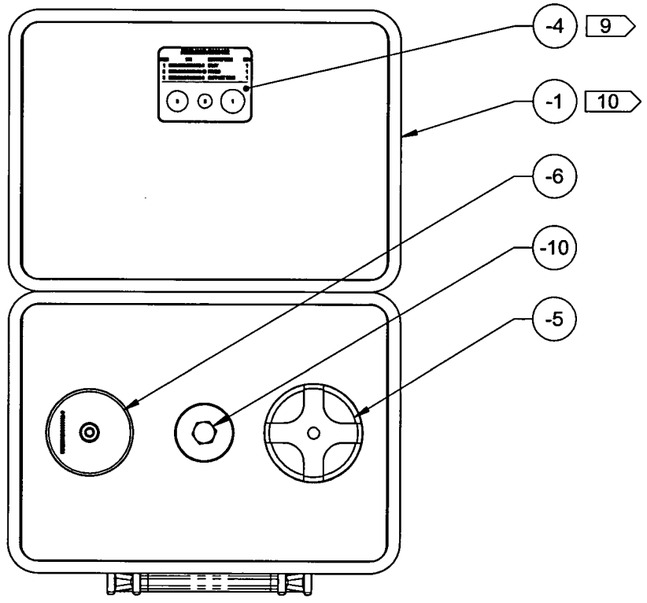
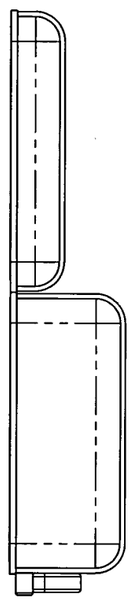
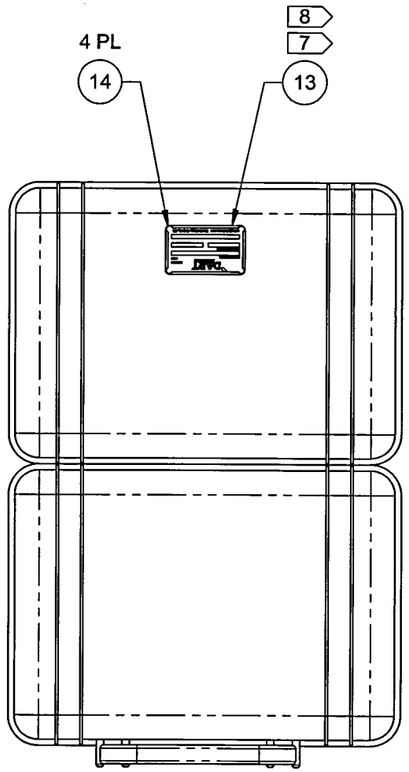
ITEM #	QTY	PART #	PART TITLE
-1	1	RBEM632V3008102-1	PACKAGING ASSY
-4	1	RBEM632V3008102-4	POSITION PLACARD
-5	1	RBEM632V3008102-5	BODY
-6	1	RBEM632V3008102-6	SUPPORT RING ASSY
-10	1	RBEM632V3008102-10	PRESS
13	1	RB41011	DART PLACARD
14	4	McMaster#97524A032 OR EQUIV.	ALUMINUM SEALING BLIND RIVETS 1/8" DIA. x 0.425" LG.







RBEM632V3008102 OUTPUT FLANGE SEAL EXCHANGE

NOTES:
1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: ENGRAVE THE TOOL P/N & S/N ON THE DART PLACARD WHERE INDICATED
8) INSTALL THE DART PLACARD ONTO THE TOP OF THE CASE IN AVAILABLE AREA USING ALUMINIUM POP RIVETS
9) HOT GLUE THE PLASTIC PLACARD ONTO THE TOP FOAM
10) HOT GLUE THE TOP AND BOTTOM FOAM INTO THE CASE

REV.	DESCRIPTION	ECN #	BY
C	TEMPLATE UPDATED, PART NUMBERS CHANGED PER DART'S STANDARD, NOTES ADDED, RIVETS ADDED TO SHEET 1, **-1** DRAWING ADDED, **-4** MULTICRAFT PLASTICS #LM922402 MATERIAL ADDED, **-5** DIMENSION 3.544 +/- 0.001" CHANGED FOR 3.550/3.555, DIMENSIONED PER DART'S STANDARDS, FINISH ZINC PLATE AND POWDER COAT REMOVED, MATERIAL 4140/4142 CHANGED FOR SS 303/304/316, **-6** HARDWARE IN STEEL CHANGED FOR SS, **-8** DIMENSION 3.540 +/- 0.001" CHANGED FOR 3.545/3.540, ENGRAVING ADDED, NOTES ADDED, DIMENSION M64 x 1.5 - 6H CHANGED FOR M64 x 1.5 - 6H LEFT HAND, MATERIAL, 4140/4142 CHANGED FOR SS 303/304/316-**9** McMaster#1078N13 CHANGED FOR McMaster#98863A368, CENTER DRILL NOTE ADDED	18-622	VM

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA	
DRAWN	KPT		
CHECKED		TOOL PART # RBEM632V3008102	REV. C
MFG. APPR.	DP		SHEET 1 OF 13
APPROVED		TITLE OUTPUT FLANGE SEAL EXCHANGE	SCALE NTS
DATE	6/6/2018		

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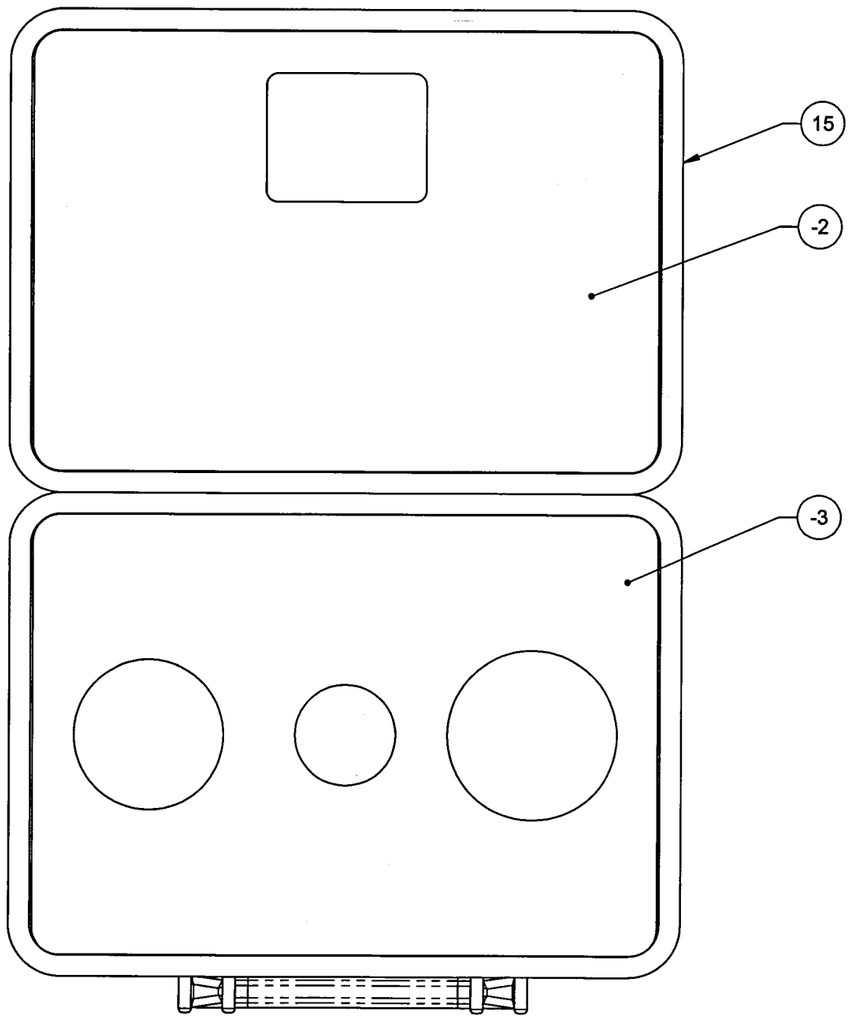
ITEM #	QTY	PART #	PART TITLE
-2	1	RBEM632V3008102-2	TOP FOAM
-3	1	RBEM632V3008102-3	BOTTOM FOAM
15	1	PELICAN #APP-1450-E	PELICAN CASE 1450



RBEM632V3008102-1 PACKAGING ASSY

NOTES:
1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED		TOOL PART # REV. C
MFG. APPR.	DP	RBEM632V3008102 SHEET 2 OF 13
APPROVED		TITLE SCALE
DATE 6/6/2018		OUTPUT FLANGE SEAL EXCHANGE NTS

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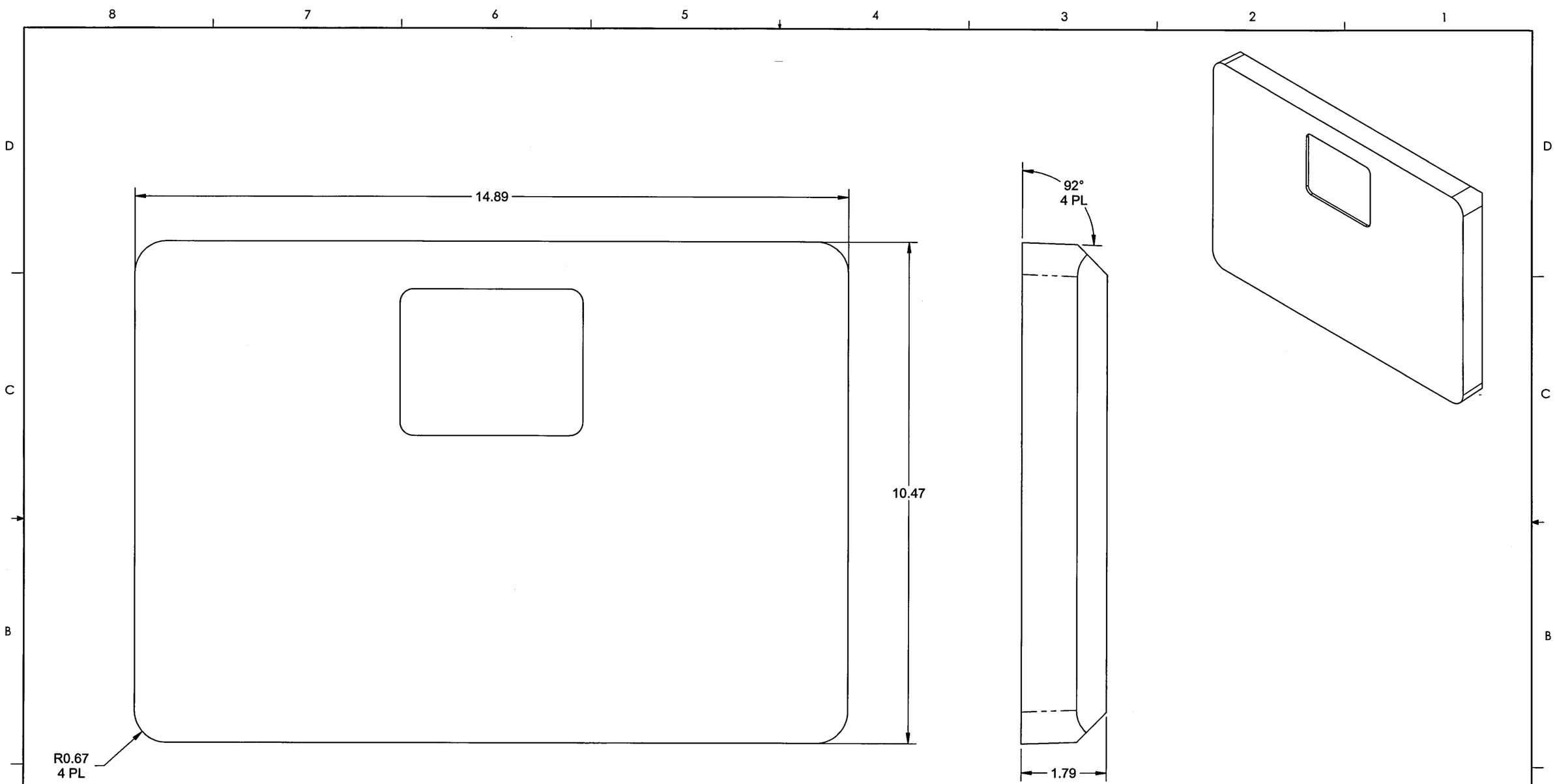

RBEM632V3008102-2 TOP FOAM

NOTES:
1) MATERIAL: BLACK ETHAFOAM 220
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A
8) ALL NON-DIMENSIONED FEATURES MUST MAINTAIN A TOLERANCE OF +/- 0.050" PER CAD FILE RBEM632V3008102-2

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED	MLee	TOOL PART # RBEM632V3008102 REV. C SHEET 3 OF 13
MFG. APPR.	DP	
APPROVED	MLee	TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS
DATE	6/6/2018	

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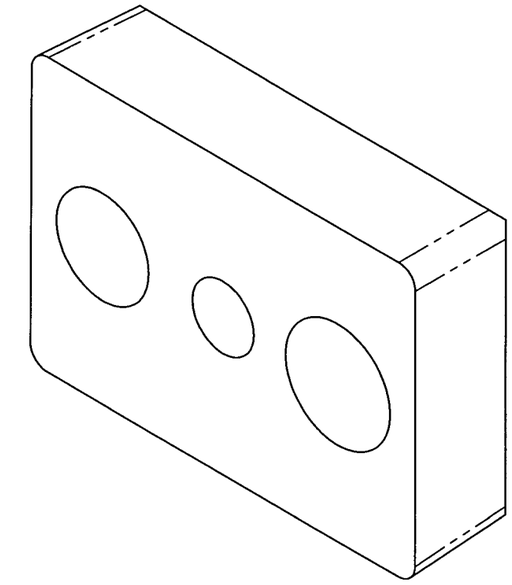

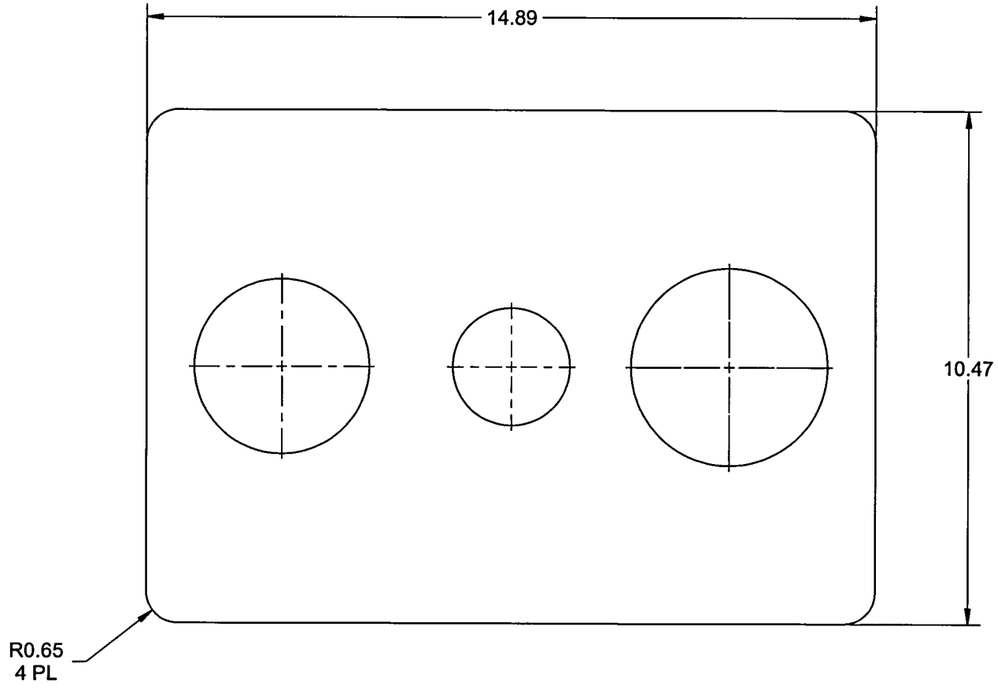

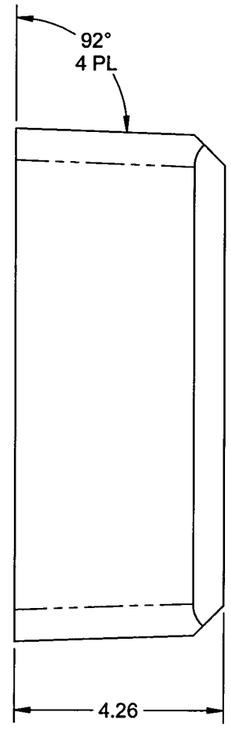

RBEM632V3008102-3 BOTTOM FOAM

NOTES:
1) MATERIAL: BLACK ETHAFOAM 220
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A
8) ALL NON-DIMENSIONED FEATURES MUST MAINTAIN A TOLERANCE OF +/- 0.050" PER CAD FILE RBEM632V3008102-3

DESIGN	VM
DRAWN	KPT
CHECKED	
MFG. APPR.	DP
APPROVED	
DATE	6/6/2018

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

TOOL PART # RBEM632V3008102 REV. C
SHEET 4 OF 13
TITLE OUTPUT FLANGE SEAL EXCHANGE
SCALE NTS

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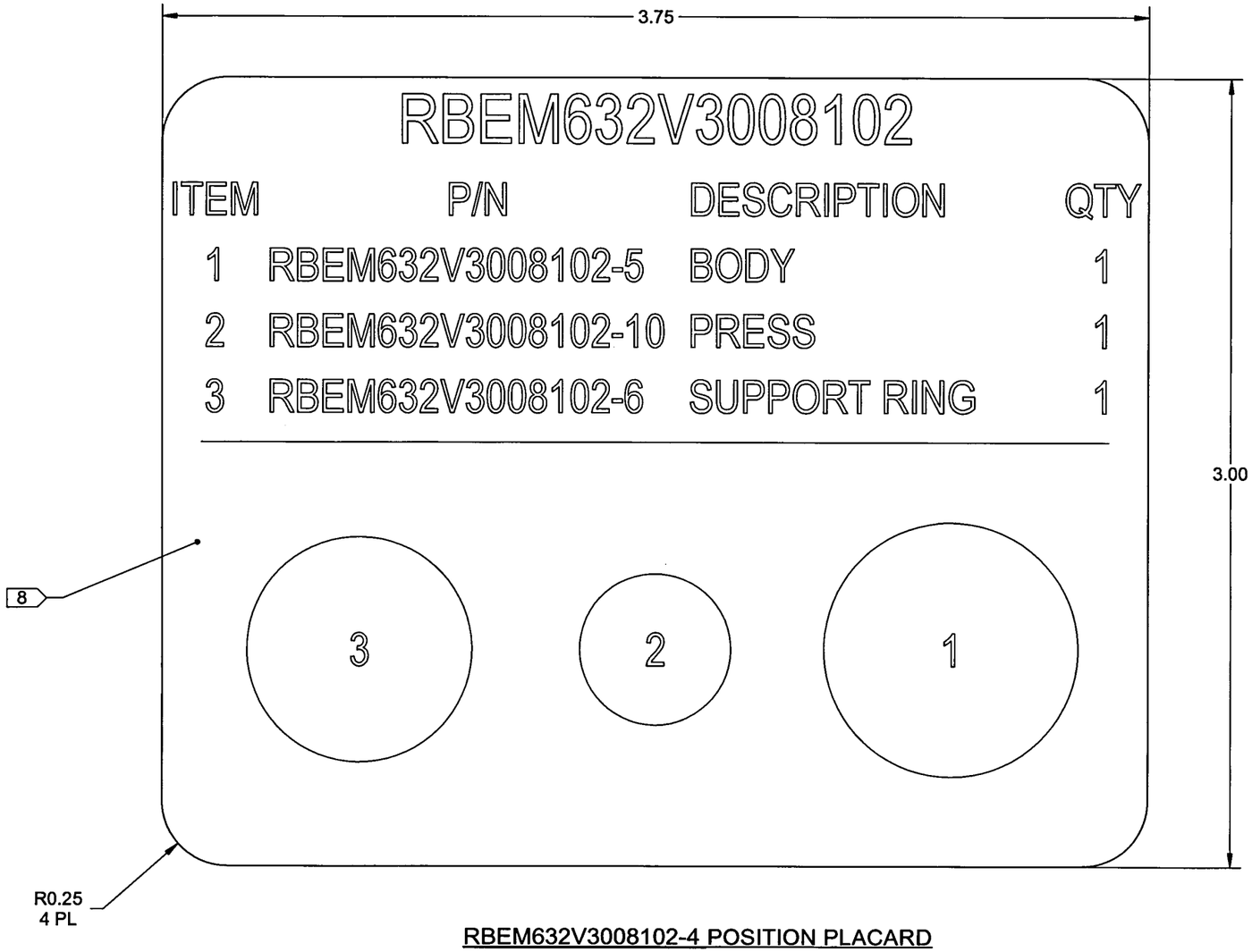

RBEM632V3008102-4 POSITION PLACARD

NOTES:
1) MATERIAL: MULTI-CRAFT PLASTICS # LM922402
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: N/A
8) BLACK BACKGROUND WITH WHITE LETTERS AND LINES

DESIGN	VM
DRAWN	KPT
CHECKED	MLee
MFG. APPR.	DP
APPROVED	MLee
DATE	6/6/2018

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

TOOL PART # RBEM632V3008102 REV. C
SHEET 5 OF 13

TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS

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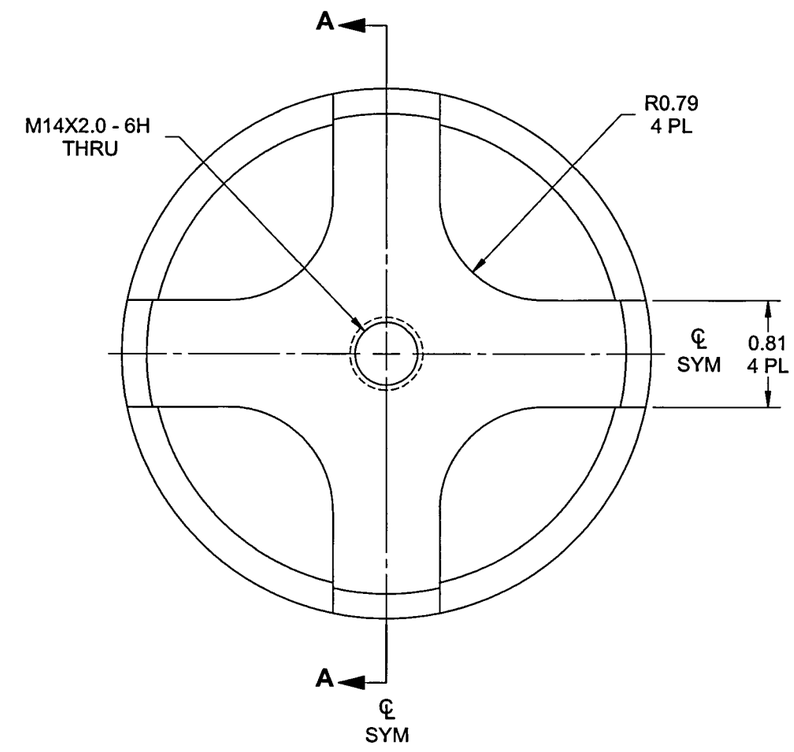
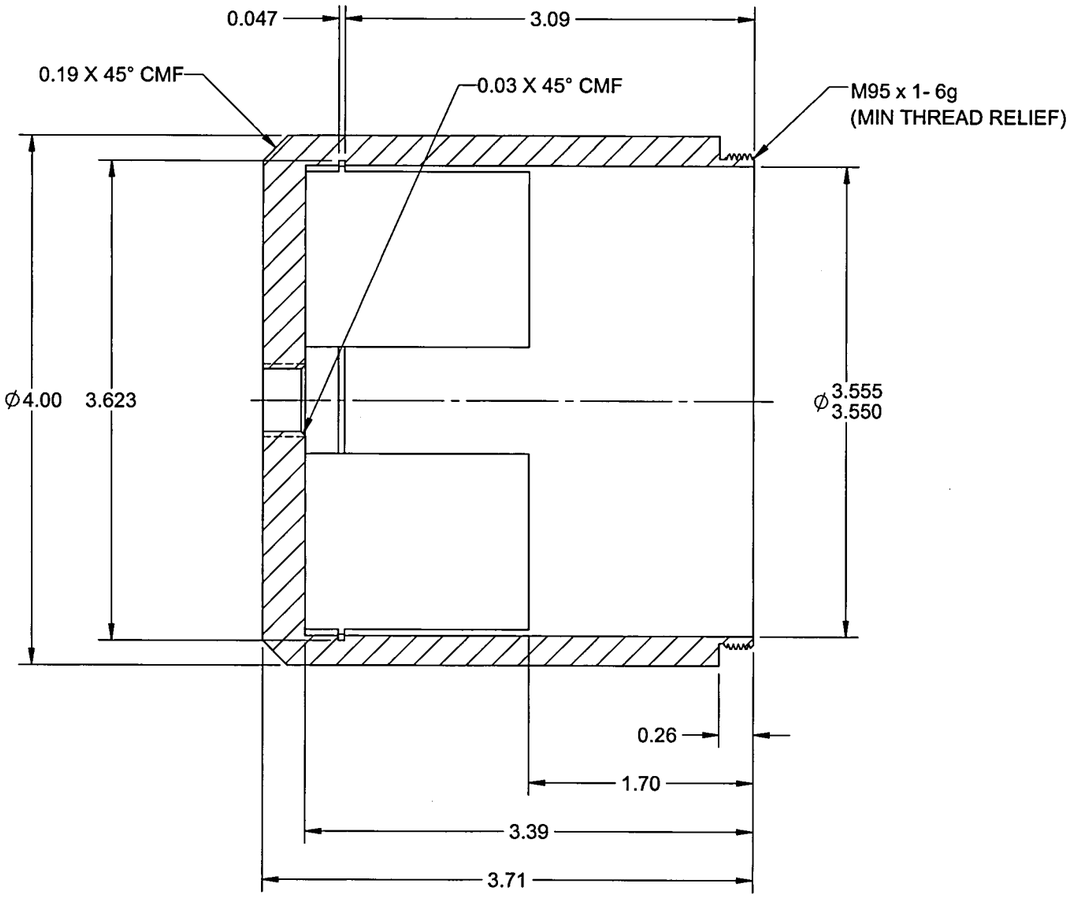
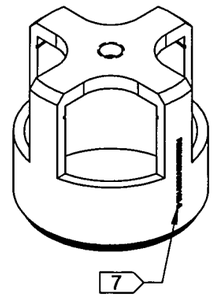


RBEM632V3008102-5 BODY



SECTION A-A



NOTES:
1) MATERIAL: 303/304/316 STAINLESS STEEL
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: MACHINE ENGRAVE PER CAD MODEL AS SHOWN OR DOT MARK T/N AS SHOWN

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED	MLee	TOOL PART # RBEM632V3008102 REV. C SHEET 6 OF 13
MFG. APPR.	DP	
APPROVED	MLee	TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS
DATE	6/6/2018	

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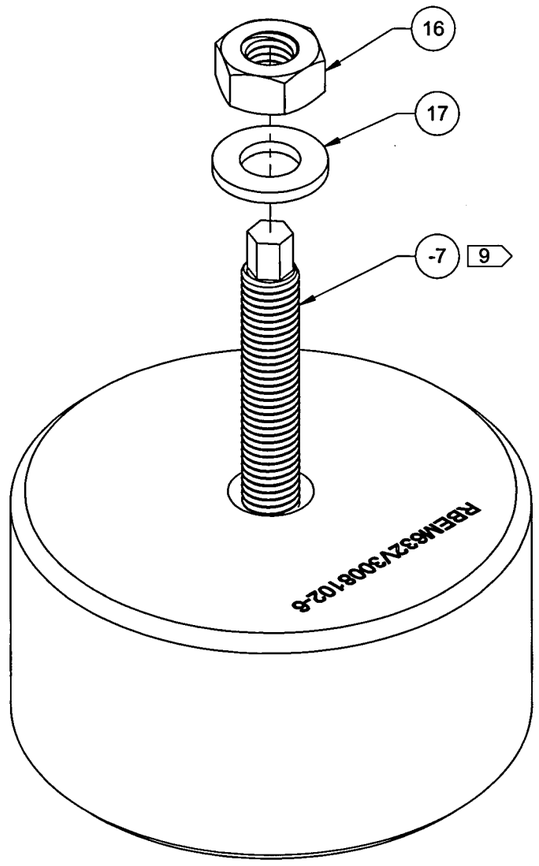
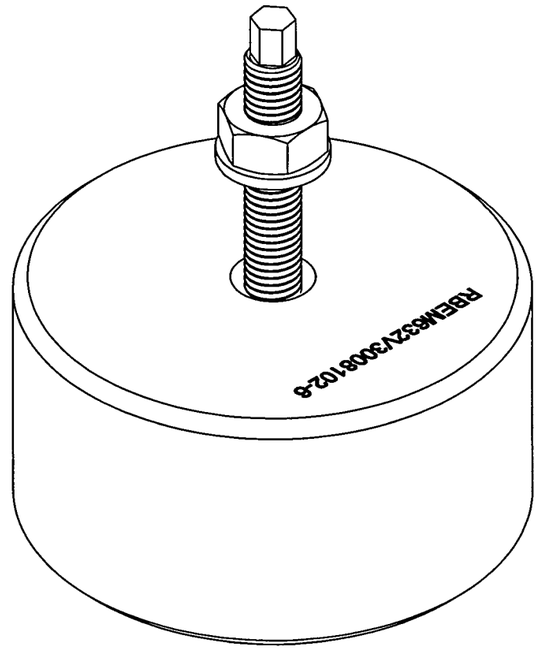
ITEM #	QTY	PART #	PART TITLE
-7	1	RBEM632V3008102-7	SUPPORT RING WELDMENT
16	1	McMaster#94150A358 OR EQUIV	SS HEX NUT M10 x 1.5mm
17	1	McMaster#90965A200 OR EQUIV	SS FLAT WASHER FOR M10 SCREW





RBEM632V3008102-6 SUPPORT RING ASSY

NOTES:
1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A
8) ASSEMBLE AS SHOWN
9) APPLY LOCTITE NICKEL BASED ANTI SEIZE ON THREADS OF ITEM -7 THEN ASSEMBLE WITH ITEM 16

DESIGN	VM
DRAWN	KPT
CHECKED	
MFG. APPR.	DP
APPROVED	
DATE	6/6/2018

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

TOOL PART # RBEM632V3008102 REV. C
SHEET 7 OF 13

TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS

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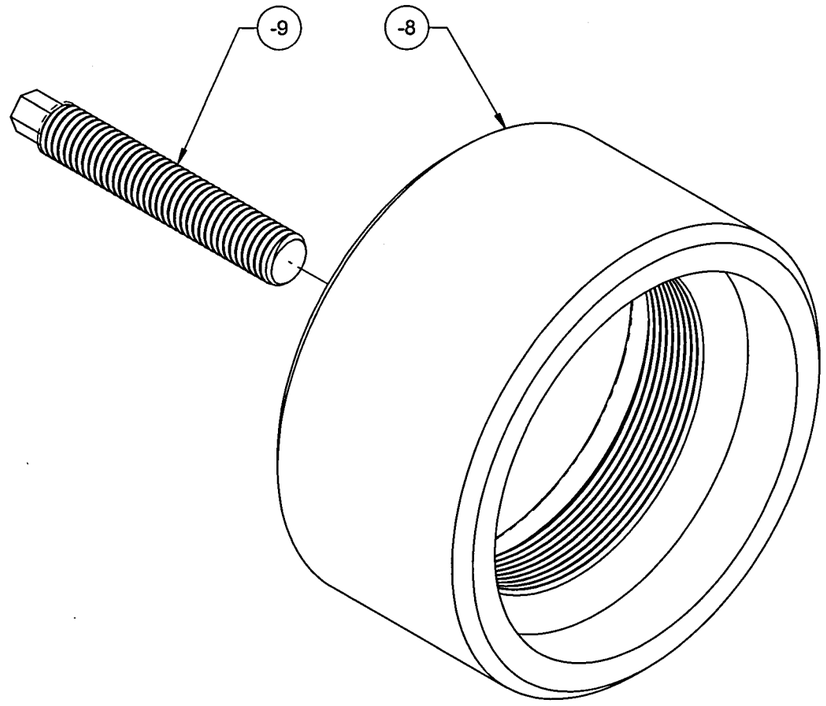
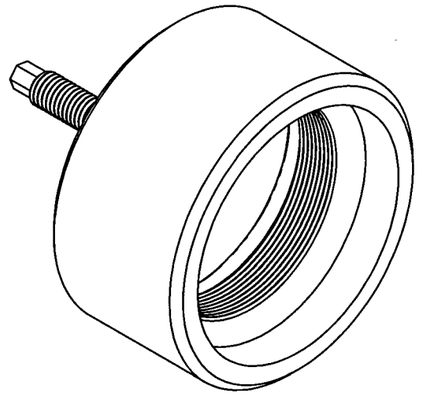
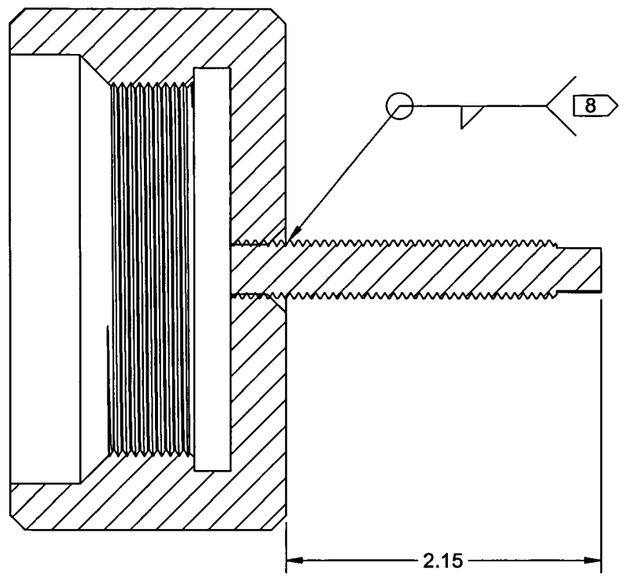
ITEM #	QTY	PART #	PART TITLE
-8	1	RBEM632V3008102-8	SUPPORT RING
-9	1	RBEM632V3008102-9	SCREW







RBEM632V3008102-7 SUPPORT RING WELDMENT

NOTES:
1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A
8) ASSEMBLE AS SHOWN, WELD ITEM -9 FLUSH TO THE SURFACE OF ITEM -8 AS SHOWN

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED		TOOL PART # RBEM632V3008102 REV. C SHEET 8 OF 13
MFG. APPR.	DP	
APPROVED		TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS
DATE	6/6/2018	

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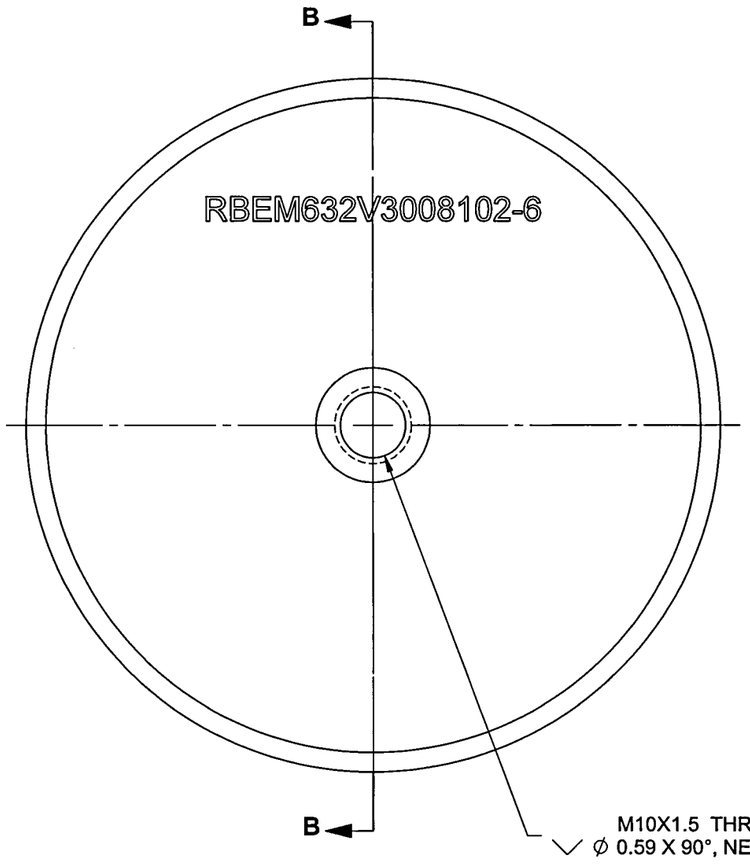
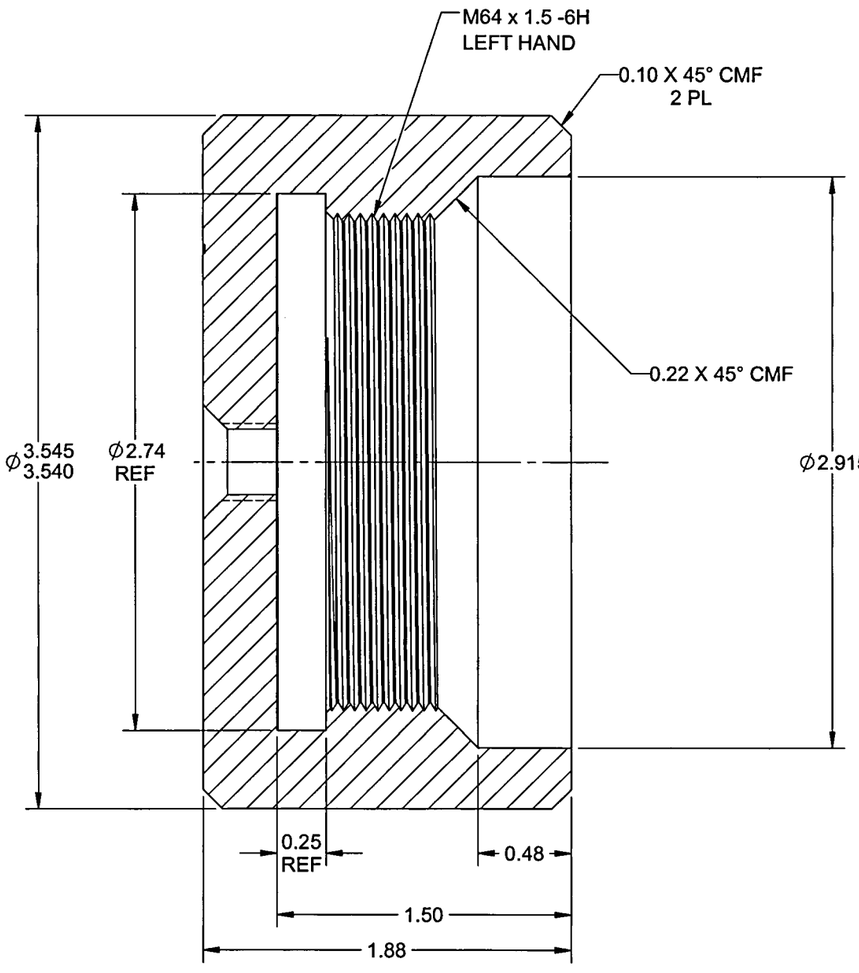
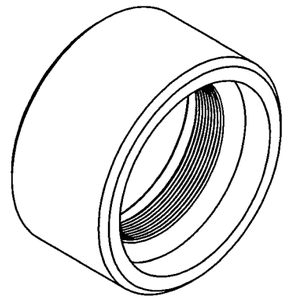
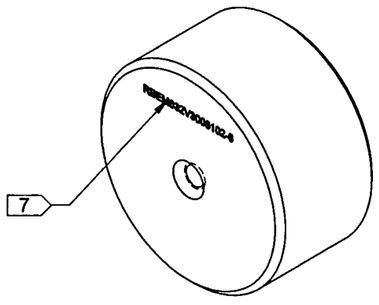




SECTION B-B





RBEM632V3008102-8 SUPPORT RING

NOTES:
1) MATERIAL: 303/304/316 STAINLESS STEEL
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: MACHINE ENGRAVE PER CAD MODEL AS SHOWN OR DOT MARK T/N AS SHOWN

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED		TOOL PART # REV. C
MFG. APPR.	DP	RBEM632V3008102 SHEET 9 OF 13
APPROVED		TITLE SCALE
DATE	6/6/2018	OUTPUT FLANGE SEAL EXCHANGE NTS

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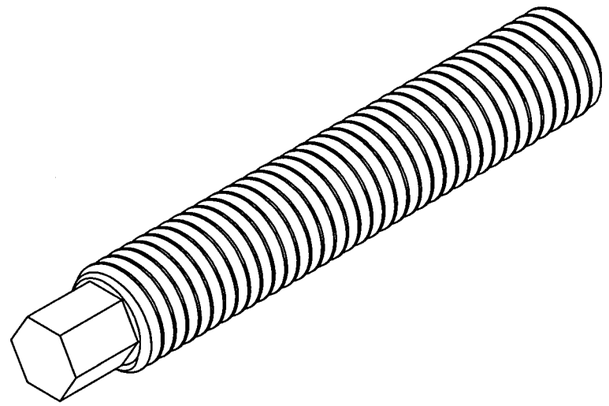

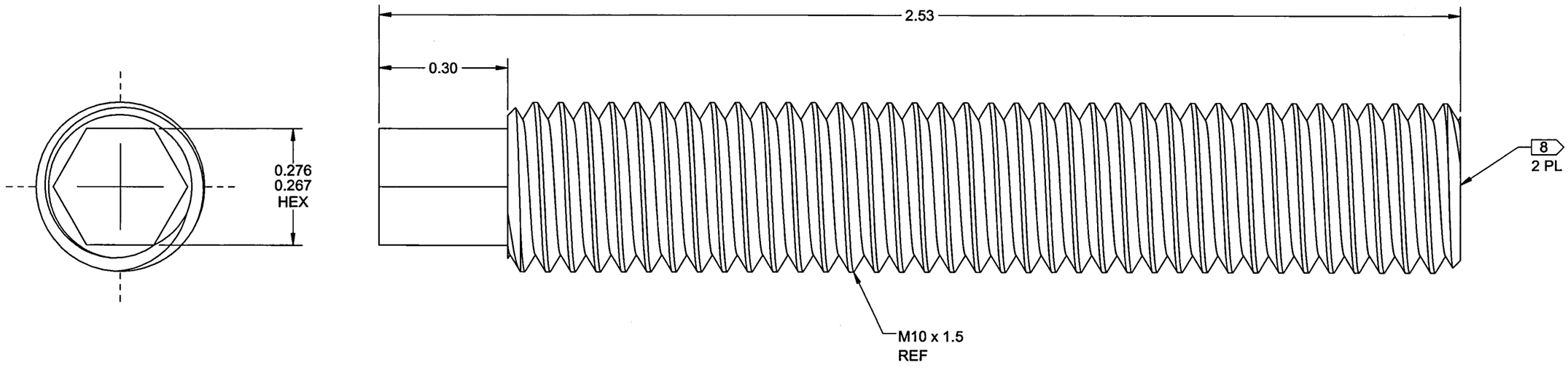

RBEM632V3008102-9 SCREW

NOTES:
1) MATERIAL: McMaster#98863A368 OR EQUIV
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: N/A
8) CENTER DRILL IS ACCEPTABLE

DESIGN	VM
DRAWN	KPT
CHECKED	
MFG. APPR.	DP
APPROVED	
DATE	6/6/2018

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

TOOL PART # RBEM632V3008102 REV. C
SHEET 10 OF 13

TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS

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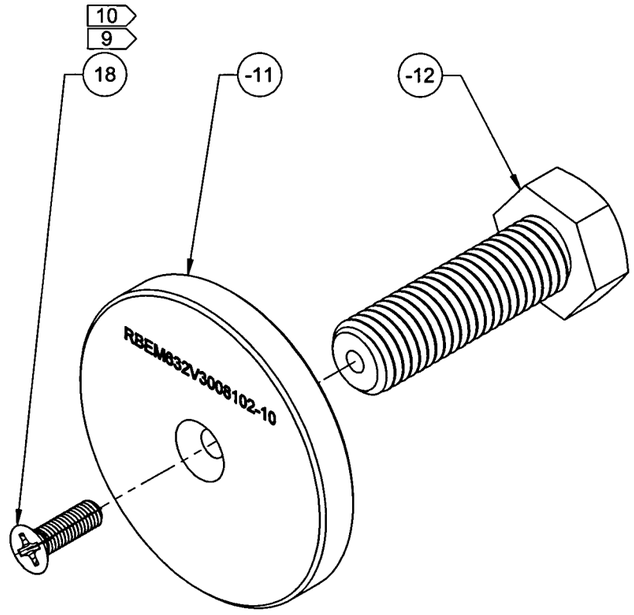
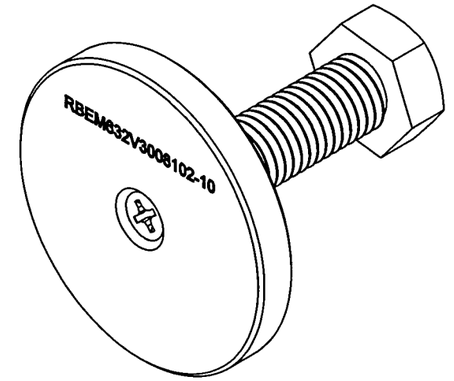
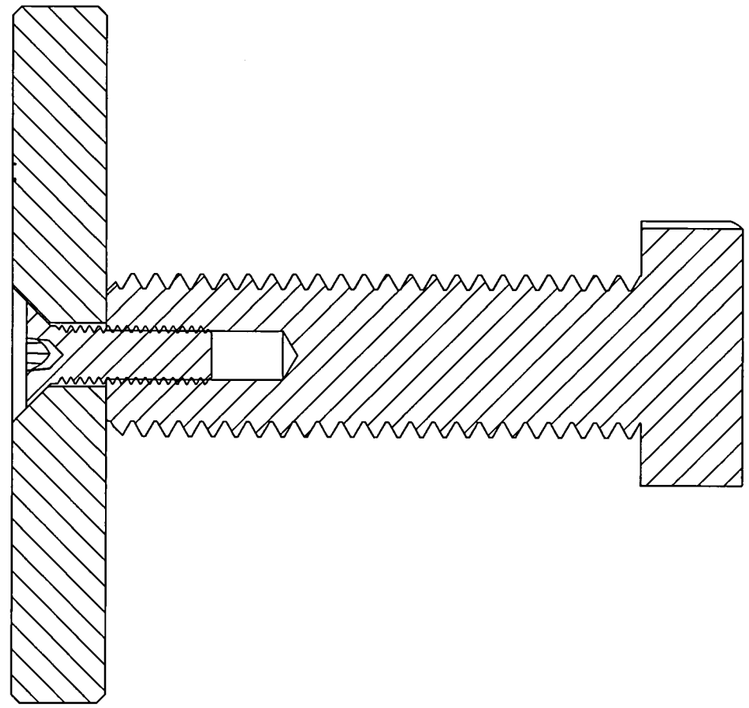
ITEM #	QTY	PART #	PART TITLE
-11	1	RBEM632V3008102-11	DISC
-12	1	RBEM632V3008102-12	BOLT MODIFIED
18	1	McMaster#91801A260 OR EQUIV	SS FLAT HEAD SCREW M5 x 0.8mm x 16mm LG.



RBEM632V3008102-10 PRESS





NOTES:
1) MATERIAL: N/A
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: N/A
7) IDENTIFICATION: N/A
8) ASSEMBLE AS SHOWN
9) APPLY RED THREADLOCKER LOCTITE 263/262 ON THREADS OF ITEM 18 THEN ASSEMBLE WITH ITEM -12 AND REMOVE EXCESS
10) INSTALL ITEM 18 UNTIL SCREW IS FULLY SEATED ON ITEM -11

DESIGN	VM
DRAWN	KPT
CHECKED	
MFG. APPR.	DP
APPROVED	
DATE	6/6/2018

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

TOOL PART # RBEM632V3008102 REV. C
SHEET 11 OF 13

TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS

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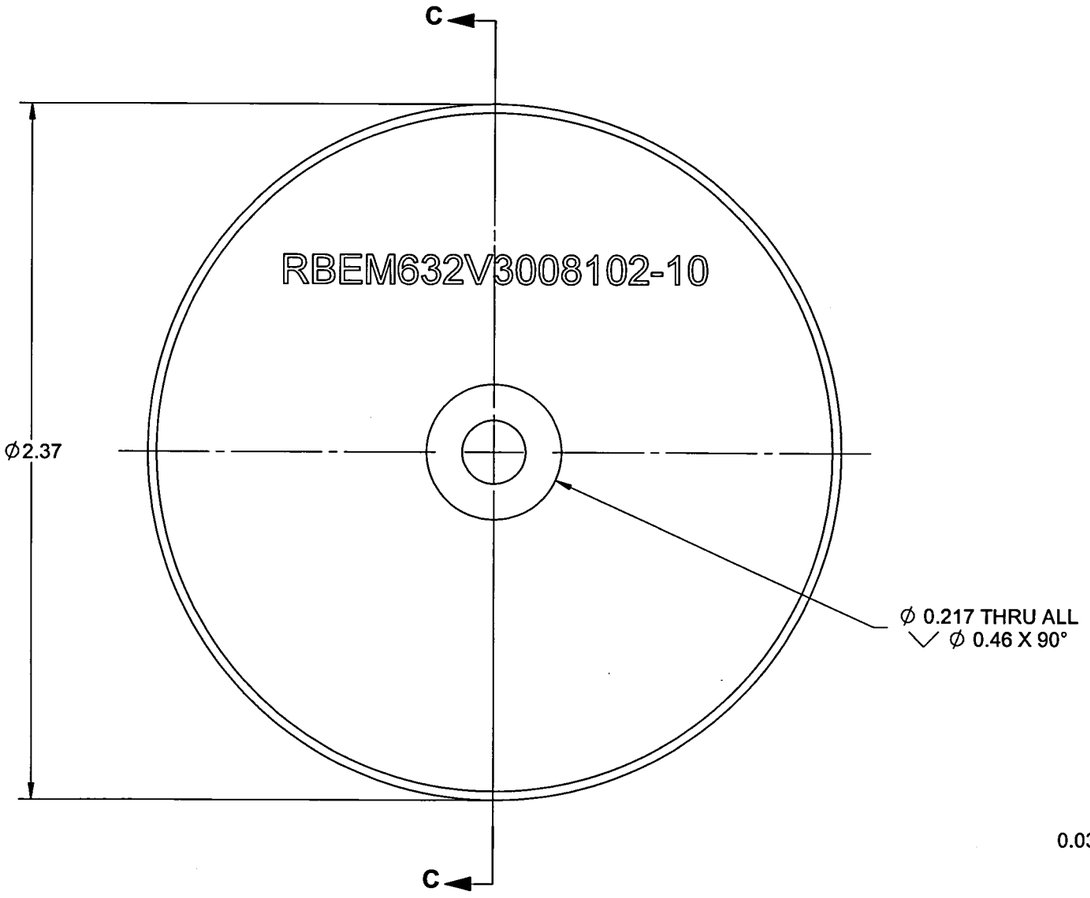
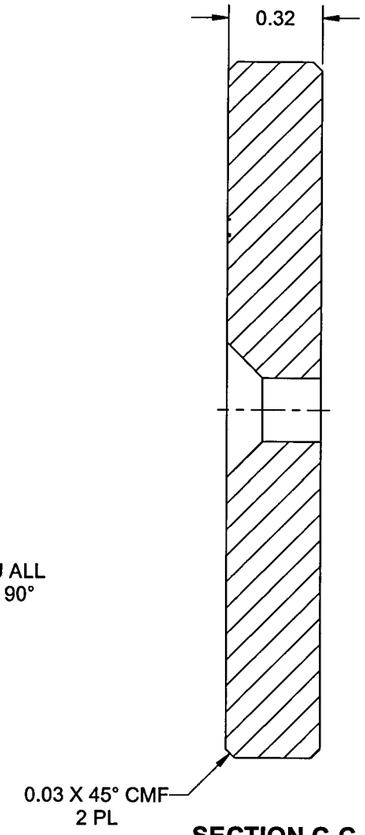
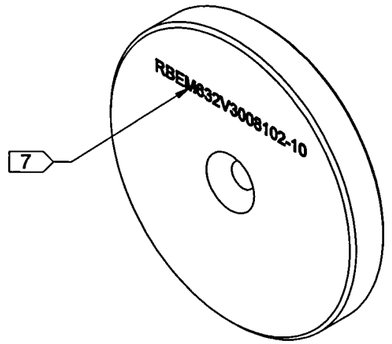


RBEM632V3008102-11 DISC



SECTION C-C



NOTES:
1) MATERIAL: WHITE DELRIN / ACETAL ASTM D6100
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: MACHINE ENGRAVE PER CAD MODEL AS SHOWN AND FILL WITH BLACK INK

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED		TOOL PART # RBEM632V3008102 REV. C SHEET 12 OF 13
MFG. APPR.	DP	
APPROVED		TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS
DATE	6/6/2018	

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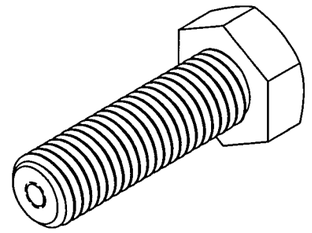

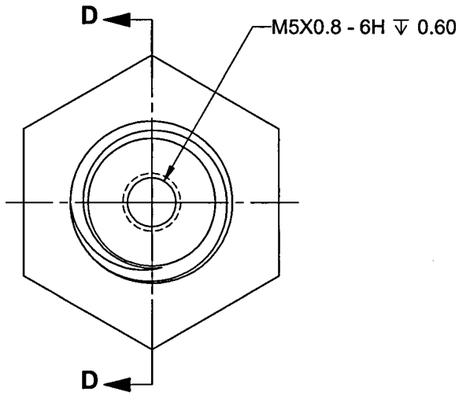

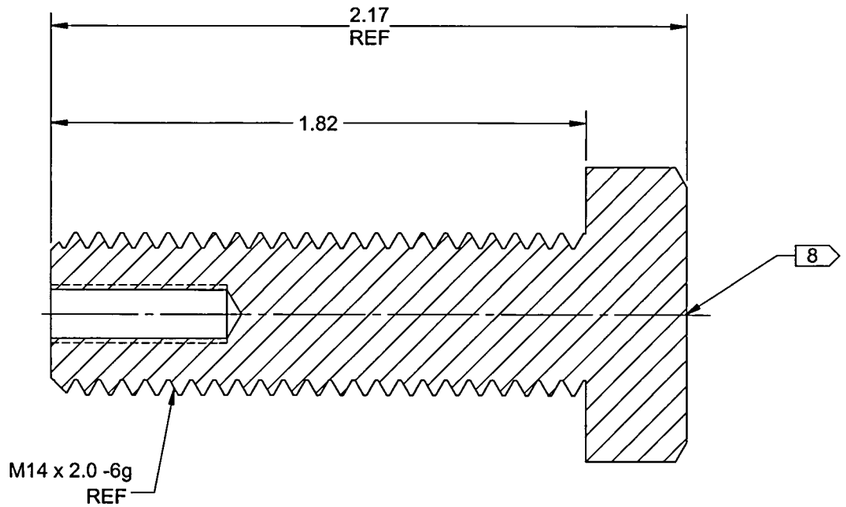

SECTION D-D

RBEM632V3008102-12 BOLT MODIFIED

NOTES:
1) MATERIAL: McMaster#91287A787 OR EQUIV.
2) HEAT TREAT: N/A
3) FINISH: N/A
4) TOLERANCES: X.X = +/- 0.1" / +/- 1°
X.XX = +/- 0.01" / +/- 0.5°
X.XXX = +/- 0.005" / +/- 0.1°
X.XXXX = +/- 0.0005" / +/- 0.05°
PARALLELISM, ECCENTRICITY AND SYMMETRY ABOUT ALL CENTER LINES = +/-0.005"
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005" TO 0.010"
7) IDENTIFICATION: N/A
8) CENTER DRILL IS ACCEPTABLE

DESIGN	VM	**DART AEROSPACE LTD** HAWKESBURY, ONTARIO, CANADA
DRAWN	KPT	
CHECKED	MLee	TOOL PART # RBEM632V3008102 REV. C SHEET 13 OF 13
MFG. APPR.	DP	
APPROVED	MLee	TITLE OUTPUT FLANGE SEAL EXCHANGE SCALE NTS
DATE 6/6/2018		

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